

Exhibit 300: Capital Asset Summary

Part I: Summary Information And Justification (All Capital Assets)

Section A: Overview & Summary Information

Date Investment First Submitted: 2009-06-30
Date of Last Change to Activities: 2012-03-13
Investment Auto Submission Date: 2012-02-23
Date of Last Investment Detail Update: 2012-02-23
Date of Last Exhibit 300A Update: 2012-03-13
Date of Last Revision: 2012-03-13

Agency: 007 - Department of Defense **Bureau:** 17 - Department of the Navy

Investment Part Code: 02

Investment Category: 00 - Agency Investments

1. Name of this Investment: Consolidated Afloat Networks Enterprise Service

2. Unique Investment Identifier (Ull): 007-000003146

Section B: Investment Detail

- 1. Provide a brief summary of the investment, including a brief description of the related benefit to the mission delivery and management support areas, and the primary beneficiary(ies) of the investment. Include an explanation of any dependencies between this investment and other investments.**

Consolidated Afloat Networks & Enterprise Services (CANES) is a DoN Efficiency Initiative and is the Navy's only Program of Record (POR) to replace existing afloat networks and provide the necessary infrastructure for applications, systems, and services to operate in the tactical domain. CANES is the technical and infrastructure consolidation of existing, separately managed legacy afloat networks currently under Ship Communications Automation. The legacy, afloat network designs are End of Life starting in FY 2012. The fundamental goal of CANES is to bring Infrastructure and Platform as a Service (IaaS / PaaS), within which Tasking, Collection, Processing, Exploitation and Dissemination (TCPED) computing and storage capabilities will reside in current and future iterations. CANES will provide complete infrastructure, inclusive of hardware, software, processing, storage, and end user devices for Unclassified-SCI, for all basic network services (email, web, chat, collaboration) to a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, and Aircraft. Approximately 36 hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Specific programs, such as Distributed Common Ground System - Navy (DCGS-N), Global Command and Control System - Maritime (GCCS-M), Naval Tactical Command Support System (NTCSS), and Undersea Warfare Decision Support System

(USW-DSS) are dependent on the CANES Common Computing Environment (CCE) to field, host, and sustain their capability because they no longer provide their own hardware. CANES requires ADNS to field prior to or concurrently with CANES due to architectural reliance between the two programs. FY 2013 will fund procurement, integration, ship designs, and installation. Continue platform set 3 & 4 baseline development. Perform Developmental Testing (DT) and Initial Operational Test & Evaluation (IOT&E) on unit level platform in support of Full Deployment Decision (FDD) in 4Q. Begin DT on force level baseline. All will benefit the mission by driving significant reductions: systems consolidation, virtualization, commonality, enhanced usability and automation of systems management, administration, troubleshooting to support interoperability among tactical/non-tactical elements across the Global Information Grid.

2. How does this investment close in part or in whole any identified performance gap in support of the mission delivery and management support areas? Include an assessment of the program impact if this investment isn't fully funded.

The CANES program's consolidated, integrated approach will address architecture, configuration management, training, and logistics issues, while rapidly and inexpensively transitioning new Commercial Off The Shelf (COTS)/Government Off The Shelf (GOTS) technologies. CANES will retain the current core Navy network capabilities while providing increased performance and improved technical adaptability to Navy afloat LANs. Capability gaps to be addressed by CANES include: system interoperability, collaboration, information access, cross domain security, information exchange, and system responsiveness. A single CANES installation replaces 4 networks and more than 36 server based applications or systems. CANES is designed with embedded Information Assurance and Computer Network Defense capabilities. Systems and network management capabilities provide automated Information Assurance Vulnerability Alerts (IAVA), intrusion detection, detection of rogue access, and the ability to command and control the network. CANES delivers authoritative Defense in Depth for all networks/hosted applications and provides Computer Network Defense/Information Operations Condition to combat internal and external threats.

3. Provide a list of this investment's accomplishments in the prior year (PY), including projects or useful components/project segments completed, new functionality added, or operational efficiency achieved.

- Achieved Milestone B (MS B), which approves entry into the Engineering and Manufacturing Development (EMD) phase. As part of the Milestone B decision, the entrance criteria for the upcoming Milestone C and the CANES Acquisition Program Baseline (APB) were approved.
- Established Service Cost Position (SCP) in support of MS B and updated CANES Fielding Plan and Funding Profile to reflect the SCP.
- Completed Critical Design Reviews (CDR) with both system developers, which established platform design baselines.

4. Provide a list of planned accomplishments for current year (CY) and budget year (BY).

- Complete statutory and regulatory acquisition documentation to achieve CANES MS C.
- Revise Cost Analysis Requirements Document (CARD) and Life Cycle Cost Estimate (LCCE) in support of Navy's Service Cost Position (SCP) for MS C.
- Conduct Operational Assessment (OA) in support of MS C.
- Preparation begins for Initial Operational Test and

Evaluation (IOT&E) on Unit level platforms to complete operational testing. -Prepare Enterprise Engineering and Certification (E2C) lab for testing on platform set 1 and 2 baselines. -Conduct platform set 1 and 2 partial-build integration testing of hosted applications and systems as they migrate to CANES baseline while waiting on system developers down select. -Conduct developer baseline configuration testing. -Conduct final platform set 1 and 2 baseline testing. -Commence Source Selection activities associated with Full Deployment contract. -Achieve MS C. -Procure (13) units, (1) Technical Training Equipment, integration, and associated costs for pre-installation design and activity drawings. -Install (4) afloat units and (1) Technical Training Equipment unit. -Conduct ongoing hosted system integration and patch testing for platform set 1 and 2. -Develop platform set 3 and 4 baselines to support conduct of testing. -Conduct platform set 1, 2, 3 and 4 testing events at E2C lab. -Perform Development Test (DT) and IOT&E in support of Full Deployment Decision (FDD) in 4QFY 2013 on unit level platform. -Perform DT on force level baseline in support of Follow-On Test and Evaluation (FOT&E) planned to occur in FY 2014. -Procure (27) units, (1) Technical Training Equipment, integration, and associated costs for pre-installation design and activity drawings. -Install (25) afloat units and (1) Technical Training Equipment unit.

5. **Provide the date of the Charter establishing the required Integrated Program Team (IPT) for this investment. An IPT must always include, but is not limited to: a qualified fully-dedicated IT program manager, a contract specialist, an information technology specialist, a security specialist and a business process owner before OMB will approve this program investment budget. IT Program Manager, Business Process Owner and Contract Specialist must be Government Employees.**

2008-12-12

Section C: Summary of Funding (Budget Authority for Capital Assets)

1.

Table I.C.1 Summary of Funding

	PY-1 & Prior	PY 2011	CY 2012	BY 2013
Planning Costs:	\$0.0	\$0.0	\$0.0	\$0.0
DME (Excluding Planning) Costs:	\$54.4	\$36.1	\$181.4	\$343.9
DME (Including Planning) Govt. FTEs:	\$15.7	\$11.9	\$21.2	\$39.8
Sub-Total DME (Including Govt. FTE):	\$70.1	\$48.0	\$202.6	\$383.7
O & M Costs:	\$0.0	\$0.0	\$0.0	\$0.0
O & M Govt. FTEs:	\$5.1	\$2.4	\$9.1	\$24.5
Sub-Total O & M Costs (Including Govt. FTE):	\$5.1	\$2.4	\$9.1	\$24.5
Total Cost (Including Govt. FTE):	\$75.2	\$50.4	\$211.7	\$408.2
Total Govt. FTE costs:	\$20.8	\$14.3	\$30.3	\$64.3
# of FTE rep by costs:	90	110	151	310
Total change from prior year final President's Budget (\$)		\$-69.9	\$-92.4	
Total change from prior year final President's Budget (%)		-58.00%	-30.00%	

2. If the funding levels have changed from the FY 2012 President's Budget request for PY or CY, briefly explain those changes:

FY 2011 Reduced funding levels due to PB12 Congressional marks for ahead of need and contract delay. FY 2012 Reduced funding level due to the PB13 Congressional Appropriations Act that transferred funds from CANES OPN to Ship Communications Automation and CANES RDT&E.

Section D: Acquisition/Contract Strategy (All Capital Assets)

Table I.D.1 Contracts and Acquisition Strategy

Contract Type	EVM Required	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	IDV Agency ID	Solicitation ID	Ultimate Contract Value (\$M)	Type	PBSA ?	Effective Date	Actual or Expected End Date
Awarded		N0017805D4593									
Awarded		N0003910D0027									
Awarded		N0003910D0028									
Awarded		N0003910D0028									

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

In accordance with DoD guidance memo date 07 Mar 2005, the above contracts not using EVM do not qualify under the DoD criteria for using EVM. However, cost and schedule variances are being monitored via Cost and performance Contract Data Requirement List (CDRL) review, as well as quarterly Program Management Reviews conducted by the contractor.

Exhibit 300B: Performance Measurement Report

Section A: General Information

Date of Last Change to Activities: 2012-03-13

Section B: Project Execution Data

Table II.B.1 Projects

Project ID	Project Name	Project Description	Project Start Date	Project Completion Date	Project Lifecycle Cost (\$M)
P3146-101	Engineering and Manufacturing Development	Supports operational assessment (OA), completion of regulatory and statutory requirements for Milestone (MS) C, and initial CANES installation aboard a Guided Missile Destroyer (DDG) platform. OA is required to achieve MS C. The first DDG installation is required to perform and complete Initial Operational Test and Evaluation (IOT&E), which is required to achieve Full Deployment Decision (FDD).			
P3146-102	Limited Deployment	Limited Deployment (LD) Contract Award after a down-select to single CANES design. Includes follow-on effort to procure LD fielding units and all associated production activities.			

Activity Summary

Roll-up of Information Provided in Lowest Level Child Activities

Project ID	Name	Total Cost of Project	End Point Schedule	End Point Schedule	Cost Variance	Cost Variance	Total Planned Cost	Count of
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Activity Summary

Roll-up of Information Provided in Lowest Level Child Activities

Project ID	Name	Total Cost of Project Activities (\$M)	End Point Schedule Variance (in days)	End Point Schedule Variance (%)	Cost Variance (\$M)	Cost Variance (%)	Total Planned Cost (\$M)	Count of Activities
		Activities (\$M)	Variance (in days)	Variance (%)	(\$M)	(%)	(\$M)	Activities
P3146-101	Engineering and Manufacturing Development							
P3146-102	Limited Deployment							

Key Deliverables

Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days)	Schedule Variance (%)
P3146-101	Operational Assessment	OA includes lab accreditation activities and an Operational Test Readiness Review (OTRR). Conduct OA testing under various operational, system and network environmental conditions to assess CANES capabilities by both contractor personnel, fleet operations and maintenance personnel.	2012-03-30	2012-03-30		273	-132	-48.35%
P3146-101	Milestone C Event	MS C activities associated with completion of requirements to include regulatory and statutory acquisition documents, participation in Integrating Integrated Product Team (IPT), Overarching IPT, IT	2012-06-29	2012-06-29		514	-41	-7.98%

Key Deliverables								
Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days)	Schedule Variance (%)
		Acquisition Board (ITAB) Readiness Meeting, and ITAB.						

Section C: Operational Data

Table II.C.1 Performance Metrics

Metric Description	Unit of Measure	FEA Performance Measurement Category Mapping	Measurement Condition	Baseline	Target for PY	Actual for PY	Target for CY	Reporting Frequency
Mean Time Between Failure (MTBF).	Hours	Process and Activities - Cycle Time and Timeliness	Over target	495.000000	0.000000	0.000000	495.000000	Monthly
Mean Time to Repair (MTTR).	Hours	Customer Results - Service Accessibility	Under target	4.000000	0.000000	0.000000	4.000000	Monthly
Materiel Availability for Critical Services.	Percentage	Customer Results - Timeliness and Responsiveness	Over target	0.950000	0.000000	0.000000	0.950000	Monthly
Operational Availability for Critical Services.	Percentage	Technology - Reliability and Availability	Over target	0.990000	0.000000	0.000000	0.990000	Monthly
Ownership Cost.	Percentage	Mission and Business Results - Management of Government Resources	Over target	0.150000	0.000000	0.000000	0.150000	Semi-Annual
TBD.	TBD	Technology - Effectiveness	Over target	0.000000	0.000000	0.000000	0.000000	Semi-Annual